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**ETHIOPIA**

# HEALTH INFRASTRUCTURE PROGRAM

Progress Report for Fiscal Year 2012  
(October 1, 2011 to September 30, 2012)



Jeradado Health Center Superstructure Work, SNNPR, Ethiopia

October 15, 2012

This publication was produced for review by the United States Agency for International Development. It was prepared by Tetra Tech, Inc.

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**PEPFAR Ethiopia In-Country Reporting System (IRS)**

***Tetra Tech Inc. – EHIP Program***

**PROGRESS REPORT FOR**

**FISCAL YEAR 2012**

**(OCTOBER 1, 2011 TO SEPTEMBER 30, 2012)**

**CONTACT INFO FOR THIS REPORT:**

  
EHIP - CHIEF OF PARTY  
TETRA TECH, INC  
  


## LIST OF ACRONYMS

A-E	Architecture and Engineering
CAOP	Community Awareness & Outreach Plan
Chemonics AHSE	Chemonics Assistance to Health Systems Expansion
COTR	Contracting Officer's Technical Representative
CRMS	Construction Renovation & Management Services
FMoH	Federal Ministry of Health
FSA	Field Survey Assessment
FY	Fiscal Year
GoE	Government of Ethiopia
HAPN	Health, AIDS, Population and Nutrition
HC	Health Center
HIV/AIDS	Human Immunodeficiency Virus/Auto-Immune Deficiency Syndrome
HPN	Health, Population and Nutrition
HSDP	Health Sector Development Program
IR	Intermediate Result
Kebele	The local community or community elder group
M&E	Monitoring and Evaluation
OHSS	Other Health Systems Strengthening
OVC	Orphans and Vulnerable Children
PEPFAR	President's Emergency Plan For AIDS Relief
PLWHA	People Living With HIV/AIDS
PSA	Preliminary Site Assessment
QA	Quality Assurance
RHB	Regional Health Bureau
RP	Existing Health Center Renovation Project
SA	Site Adapt (New Health Center Projects based on the Prototype)
SNNPR	Southern Nations, Nationalities and Peoples Region, Ethiopia
SO	Strategic Objective
Tt	Tetra Tech
USAID	United States Agency for International Development
VE	Value Engineering (Opportunity for cost reduction review)

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## INTRODUCTION

This is the 7th progress report submitted under Task Order EDH-I-00-08-00027-00, TO AID-662-TO-11-0001; Ethiopia Health Infrastructure Program. The reporting period is for the USAID Fiscal Year 2012 covering the period from October 1, 2011 through September 30, 2012. The report also serves as the Q4/FY12 Quarterly Report and highlights staffing and resources, major achievements, work activities, reports and other items completed during FY2012 and identifies the major activities planned for the next reporting period; 1<sup>st</sup> Quarter FY2013. It also presents a summary of the project financial status.

## Executive Summary

The EHIP continued work towards the overall program objective of *sustainable health infrastructure* for the people of Ethiopia. The following milestones and successes were achieved during the four quarters Fiscal Year 2012:

### ➤ 1st Quarter FY2012:

- Participated in health center and renovation programming, design sessions, site/reconnaissance trips, biweekly meetings and FMOH semi-annual and annual Planning Programs, to facilitate communication with USAID and health sector stakeholders
- Finalized a modified Health Center Facility design, a new standard for health centers in Ethiopia
- Completed field investigations and the first set of 20 site adaptation construction design packages that address cross-cutting issues and integrate environmental mitigation and monitoring requirements
- Developed a QA Plan to standardize Construction and Renovation Management Services (CRMS) inspection and monitoring activities
- Developed a Community Awareness and Outreach plan for implementation during construction
- Engaged and provided training sessions for three Ethiopian A/E partner firms to build local capacity and increase the quality of Ethiopian design and construction practices
- Collaborated with the local Ethiopian A/E firms and the Assistance to Health Systems Expansion (AHSE) Program to leverage and enhance capacity building efforts
- Submitted the 2012 Annual Workplan and revised 2010-2015 Performance Monitoring Plan (PMP) and various other project reports within project schedule and budget

### ➤ 2nd Quarter FY2012:

- Completed the field investigation report summarizing the findings from preliminary assessment of the first twenty five (25) existing Health Center renovation projects.
- Held multiple meetings with the FMOH and USAID concerning the potential renovation projects scope of work and expected cost.
- Prepared 65% design development drawings and BoQ's for at least six (6) of the first twenty five potential renovation projects.
- Completed "Value Engineering" review of the completed Health Center design, including the typical "Site Adaptation" scheme, reducing overall construction cost by at least 10%.

- Completed submittal of the first 26 Site adapted projects to USAID who in turn began the construction tendering process with the CRMS partner, [REDACTED].
- Reviewed the Tetra Tech – EHIP budget, cost to complete and burn rate and verified that the project cost outlook is tracking with the original budget.
- Reviewed EHIP program cost and scope based on latest construction cost estimates and refined project output expectations.
- Hired full-time architectural staff to provide in-house design of Renovation projects allowing better management of project scoping, schedule and cost.
- Planned QA assistance with USAID in preparation for construction that is expected to begin during the third quarter of FY 2012.
- Completed the transition of Chief of Party from [REDACTED] to [REDACTED].

➤ **3rd Quarter FY2012:**

- Groundbreaking was held for the first new site adapted Prototype Health Center project in Jeradado Community, SNNPR.
- Began performing QA Assistance site visits at ongoing projects.
- Completed value engineering exercise for 25 site adapted prototype projects with the goal of reducing construction cost by at least 10%. All plans were revised and submitted for procurement by USAID.
- Continued detailed dialog with the FMoH and USAID concerning renovation projects scope of work and expected cost.
- Submitted 4 complete renovation project designs for Procurement by USAID.
- Expanded the Tetra Tech/EHIP office staff to provide in-house engineering services for renovation design.
- Provided RFI response and shop-drawing QA review assistance to USAID.
- Continued engagement with Regional Authorities in an effort to resolve ongoing “Tier 4” project issues.

➤ **4th Quarter, FY2012:**

- Continued with construction of the first adapted Prototype Health Center project in Jeradado Community, SNNPR.
- Continued with QA Assistance site visits at ongoing projects.
- Continued detailed dialog with the FMoH and USAID concerning renovation projects scope of work and expected cost.
- Continued with design of six renovation projects in SNNPR and Oromia Regions.
- Provided RFI response and shop-drawing QA review assistance to USAID.
- Continued engagement with Regional Authorities in an effort to resolve ongoing “Tier 4” Site Adapt project issues resulting in the nomination of 8 additional projects.

The focus of the 1st Quarter 2013 will be on Quality Assurance assistance to USAID for new Prototype and Renovation construction and continued renovation project assessment and design. Also, the eight additional new Prototype projects will be designed based on successful nomination by Regional Authorities.

## Project Background

The period of performance for this cost plus fixed fee - completion contract is five years from the notice to proceed date of December 6, 2010 when mobilization readiness and kick-off meeting activities began in the Tetra Tech (Tt) US Offices. The project in-country team arrived in Addis Ababa in January 2011 to establish an EHIP project office in Bole, Addis Ababa and conduct the necessary business registration processes.

The Ethiopian Health Infrastructure Program (“EHIP”) provides professional Architectural and Engineering (A-E IQC) infrastructure assessment, design and quality assurance/quality control for vertical structures/civil engineering and related services to the USAID/Ethiopia Health Infrastructure Program. Tetra Tech plays a key role in the EHIP through the assessment and A-E design services for up to 392 existing health center facilities and proposed GoE-standard Health Centers. The program currently includes approximately 35 proposed site adapt (SA) centers in the Amhara and SNNPR regions and approximately 50 renovation projects in Amhara, SNNPR and Oromia regions. The work activities also include assisting USAID with implementation of a Quality Assurance (QA) program during the construction period.

The sites to be newly constructed, renovated or refurbished will be health facilities with high antiretroviral therapy (ART) patient loads and in areas of Ethiopia having high HIV prevalence which supports attaining the goals of the health system expansion program in Ethiopia that include increasing the number of GoE-standard Health Centers in Ethiopia from approximately 630 in 2007 to a total of 3,153. Achieving this goal will also assist in attaining the World Health Organization’s goal for universal primary health care coverage by providing one Health Center to every 25,000 people. The health system expansion program seeks to improve HIV/AIDS service and disease management services by increasing coverage at primary care service delivery facilities. These improved health facilities will support services to HIV/AIDS patients as well as add other clinical services that have been missing from the facilities, including appropriate provisions for Infectious Disease and Emergency Care.

Newly constructed facilities will be based on a “Prototype” Health Center design developed during FY 2011 by Tetra Tech in consultation with USAID and the FMoH Engineering/Planning staff.

## 1. Reporting period

<b>From</b> October 1, 2011	<b>To</b> September 30, 2012
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## 2. Publications/reports

**Did your organization support the production of publications, reports, guidelines or assessments during the reporting period?**

No/Not Applicable

☐

Yes

☒

If yes, please list below:

Publications/Reports/Assessments/Curriculum

Title	Author	Date
DRAFT Quality Assurance Plan	Tetra Tech Inc	October 31, 2011
Proposed Health Center Infrastructure Options	Tetra Tech Inc	October 14, 2011



Proposed Health Center Site Conditions & Additional Land	Tetra Tech Inc	November 21, 2011
Prototypical HC Design Package <ul style="list-style-type: none"> <li>• <i>HC Design Report</i></li> <li>• <i>Technical Specifications</i></li> <li>• <i>Bill of Quantities</i></li> </ul>	Tetra Tech Inc	December 5, 2011
4 Site Adaptation Construction Packages <ul style="list-style-type: none"> <li>• <i>Design Report</i></li> <li>• <i>Technical Specifications</i></li> <li>• <i>Bill of Quantities</i></li> </ul>	Tetra Tech Inc	(2) December 5, 2011 (2) December 7, 2011
Environmental Review Report	Tetra Tech Inc	December 28, 2011
Preliminary Site Assessment Report – Rehabilitation Projects (DRAFT)	Tetra Tech Inc	December 30, 2011
Various Maps indicating Health Center Project locations	Tetra Tech, Inc.	Various
EHIP – 25 Site Adaptation VE Construction Packages (TO 3 & 4) <ul style="list-style-type: none"> <li>• <i>Engineering/Architectural Drawings</i></li> <li>• <i>Technical Specifications</i></li> <li>• <i>Bill of Quantities</i></li> </ul>	Tetra Tech, Inc.	April-May, 2012
4 Renovation 100% Design Packages for Construction <ul style="list-style-type: none"> <li>• <i>Engineering/Architectural Drawings</i></li> <li>• <i>Technical Specifications</i></li> <li>• <i>Bill of Quantities</i></li> </ul>	Tetra Tech, Inc.	April-May, 2012
Findings and Recommendations for Renovation of Existing Health Centers	Tetra Tech, Inc.	5/17/12
Modification 2 Site Adaption Construction Drawings, 10 Sites	Tetra Tech, Inc.	September 5, 2012
Modification 2 Site Adaption Construction Drawings, 10 Sites	Tetra Tech, Inc.	September 5, 2012

### 3. Technical assistance

**Did your organization utilize short-term technical assistance during the reporting period?**

No/Not Applicable ☐

Yes ☒

Please list below:

Consultants/TDYers

Name	Arrival	Departure	Organization	Type of technical assistance provided
[REDACTED]	Various Dates		Tetra Tech	Engineering Support by teleconference
[REDACTED]	9/07/11	12/03/11	TetraTech	Architectural Health Care Prototype Design Technical Training of A/E subconsultants Site Adaptation Design

### 4. Travel and Visits

**Did your organization support international travel during the reporting period?**

No/Not Applicable ☐

Yes ☒

Please list below:

International Travel (All international travel to conference, workshops, trainings, HQ or meetings).

Name	Destination	Departure/Ethiopia	Arrival	Host Organization	Purpose of the travel
[REDACTED]	Us-Ethiopia	December, 2012	December, 2012	USAID	Deployment
[REDACTED]	Ethiopia – US	January, 2012	January, 2012	USAID	Redeployment

	US-Ethiopia	April 2012	April 2012	USAID	Jeradado Ground Breaking and Admin. Review
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**Have any Monitoring Visit/supervision been made to your program in during the reporting period?**

Description of Monitoring team	Start date	End date	Sites visited	Written recommendations provided
Chief of Party	7/1/12	9/30/12	Jaradado	QA Reports filed with COTR
Home Office Management	10/1/11	9/30/2012	EHIP Addis Ababa Office through tel-conferencing	Bi-weekly conference calls provide QA/QC and added resources required to support in-country team on production of work activities, deliverables and project financials.

## 5. Activity

Program Area (Tick all which apply)	Activity ID	Activity Title ( Please write the title of the activity)
<input type="checkbox"/> 01-PMTCT		
<input type="checkbox"/> 02-HVAB		
<input type="checkbox"/> 03-HVOP		
<input type="checkbox"/> 04-HMBL		
<input type="checkbox"/> 05-HMIN		
<input type="checkbox"/> 07-CIRC		
<input type="checkbox"/> 08-HBHC		
<input type="checkbox"/> 09-HTXS		
<input type="checkbox"/> 10-HVTB		
<input type="checkbox"/> 11-HKID		
<input type="checkbox"/> 12-HVCT		
<input type="checkbox"/> 13-PDTX		
<input type="checkbox"/> 14-PDCS		
<input type="checkbox"/> 15-HTXD		
<input type="checkbox"/> 16-HLAB		
<input type="checkbox"/> 17-HVSI		
<input checked="" type="checkbox"/> 18-OHSS	EDH-I-00-08-00027-00, TO AID-662-TO-11-0001	Ethiopia Health Infrastructure Program (EHIP)

## 6. Accomplishments and successes during the reporting period

### 6.1 Current Context

Construction of the first “New” site-adapted prototype Health Center in SNNP Region continued during the 4<sup>th</sup> Quarter, FY 2012 and is expected to be completed on schedule early in the 2<sup>nd</sup> Quarter FY 2013. Procurement for construction start of four (4) additional sites, also in SNNPR is nearly completed by the end of Q4/FY12 with construction expected to begin early in the Q1/FY13.

#### a. Site Adapt (SA) Prototypical Health Centers

At the outset of the program, the Ethiopian Federal Ministry of Health (FMoH) furnished USAID with a list of 92 proposed SA Health Center sites and Tetra Tech proceeded with site pre-assessments of these 92 sites during FY 2011. Sites were located throughout rural areas of Ethiopia including Oromia, Amhara and SNNPR regions.

Tt categorized the original 92 sites into three “Tiers” for advancement to the site adaptation phase

based on information gathered during the pre-assessment phase. Direction from USAID ultimately deleted the 44 Oromia Region sites resulting in a new total of 48 proposed SA health center sites. Twenty two (22) of these sites are included on an a Tetra Tech devised list known as “Tier 4” sites that need further identification and clarification from the FMOH. To date, the focus of SA design work has been on the 26 “Tier 1, 2 and 3” SA projects and all 26 sites have been designed and submitted to USAID for construction procurement.

As of Q4FY12, focus of construction remains on 25 Tier 1, 2 and 3 Site Adapt projects in SNNPR and Amhara Regions (one of the original 26 focus sites was dropped because of extremely poor access conditions). Tetra Tech has continued to examine viability of the remaining “Tier 4” sites based on direction from USAID and has identified eight (8) Tier 4 replacement sites for which site adaption design will be completed in Q1/FY13. Latest direction from USAID to Tetra Tech is that approximately 35 Site Adaption projects will be undertaken during the program.

#### **b. Existing Health Center Renovation Projects (RP)**

The original EHIP scope did not include a list of suggested renovation projects. The FMOH through its regional offices nominated 105 potential projects in five regions during the 4th Quarter of FY 11 and the 1<sup>st</sup> Quarter of FY12 and Tt began a preliminary assessment program during the 1<sup>st</sup> Quarter FY 12. Twenty five (25) sites were visited during this preliminary assessment activity and the renovation projects under design consideration by the 1<sup>st</sup> Q FY12 were drawn from these initial 25 sites.

As of Q4/FY12, focus continues on design of the first 25 renovation sites. Tetra Tech is working with USAID to identify a comprehensive list of viable renovation projects to be pursued over the coming years of the EHIP. Latest direction from USAID to Tetra tech is that approximately 50 Renovation projects will be undertaken during the program.

### **6.2 Site Adaptations for the construction of the new Health Centers**

During the Q4/FY12 Tt completed “Modification 2” design work for 10 Site Adapt projects intended to incorporate feedback received from Contractors during construction of the first site adapt project at Jeradado. The first 10 sites were prioritized based on the expected construction schedule. Modification 2 revisions will be incorporated into the remaining 15 sites, and newly designed sites, during the Q1/FY13.

Tetra Tech continued investigation of Tier 4 sites in an effort to identify 10 additional projects towards the total desired new construction count of 35 projects. Four (4) sites from the Tier 4 list in SNNPR have been replaced with new sites or determined as viable for design. Four (4) sites in Amhara have been transferred from the “Renovation” project list to the new construction list. Two additional sites must be identified during Q1/FY13.

### **6.3 Support of the procurement process**

Tetra Tech continued to provide technical assistance to USAID during the tendering process in the form of bid Addendum and response to RFIs.

### **6.4 Renovation of existing Health Centers**

During FY12, Tetra Tech performed site assessments at 31 existing Health Centers (6 in SNNPR, 5 in Tigray, 17 in Amhara and 3 in Oromia). The purpose of the assessments was: (1) to determine suitability of the site for inclusion in the Renovation Program; (2) to interview HC staff and management, local Health Administrator, and responsible utility providers on the conditions and needs at the Health Center; (3) to gather sufficient technical data to develop fully detailed design documents. Nine of the 31 sites were determined not to be suitable for the program. Four of these have been shifted to the new Health Center construction program and in the next year, Tetra Tech will develop

site adapted construction documents for those 4 sites. The other 5 unsuitable sites are being dropped from the program because of one or more of the following reasons: The Health Center is still under construction or is currently undergoing extensive renovation by others; the Health Center does not have an interest in cooperating with the program; The Health Center has an extremely low HIV/AIDS patient load; the Health Center is being operated by a private NGO that has taken on responsibility for the facility.

Tetra Tech completed design documents for the renovation of 4 existing Health Centers during the reporting period. Tetra Tech is now in the process of developing design documents for the remaining 18 Health Centers that have already been assessed, and plans to perform additional site assessments and complete a total of 50 renovation designs during the remainder of the program. Completion of renovation plans for 10 more sites is scheduled for FY13.

### **6.5 Quality Control/Quality Assurance Program Assistance**

Tetra Tech drafted a QA program during the 1<sup>st</sup> Quarter, 2012 identifying specific areas of focus for independent monitoring of the USAID/CRMS contractor. Now that construction has started Tetra Tech has advertised and interviewed for hire of 2 QA Engineers to work under the supervision of the Tt/EHIP Sr. Civil Engineer – the objective being to augment the USAID COTR ability to oversee the CRMS QC activities. The first QA Engineer will be hired immediately and the second will be hired as the work-load increases. These QA Engineers will be stationed in the field and housed in locations convenient to the project under their watch.\*

Tetra Tech will also provide QA assistance to the USAID COTR with review of shop drawings, material cut sheets and response to RFI's during the construction period.\*

\*It is important to note that there is no contractual relationship between Tetra Tech and the EHIP/CRMS contractor and Tt will report all QA-related observations to the COTR for appropriate action.

## **7. Challenges and Constraints and plans to overcome them during the reporting period**

### **7.1 Assessment and design of Tier 4 Site Adapt Projects**

Twenty two (22) sites have been categorized into Tier 4 - Sites with Identified Constraints falling into several categories:

- a. No site exists: At one location, local authorities have not identified any such site. At three sites, a new Health Center is already built or under construction.
- b. Disputed sites: The current occupants are opposing the project or local authorities are not in concurrence as to which site should be developed. This is the case at seven sites.
- c. Walk-in sites: There is no access road to the site, which can be reached only by foot or on horseback. Development of these “walk-in” sites will require additional efforts and money by the CRMS contractor. There are six walk-in sites.
- d. Small, steep or other factor that limits economic viability of construction on the site: The FMOH requested local authorities to provide sites that are a minimum of 6,000 square meters. Several are smaller. There are five of these sites. Some sites are very steep and one is at risk of flooding.

#### ***Plans to overcome:***

*Tetra Tech will continue to work with USAID and the FMOH to identify different sites and provide*

*practical solutions for these conditions. As further field investigations, analysis and solutions are explored, we will re-categorize these sites into the appropriate Tier so they can be quickly moved through the site adaptation design process and subsequent construction phase. During Q4/FY12, eight (8) sites were resolved from the Tier 4 list. Only two additional sites are required to meet the current program objective of 35 site adapted projects.*

## **7.2 Renovation program scoping and implementation difficulties and plans to overcome**

During the course of this work, challenges faced have greatly impacted the production schedule. These challenges as well as the steps Tt has taken to mitigate them are identified below:

- a. Limited functionality at the Health Centers. This required extensive evaluation of patient flow, functional adjacencies and efficient use patterns of the limited spaces available. *Tt has successfully developed designs that will provide significant improvements in facility efficiency, patient privacy, waste management capabilities, environmental health (in improved ventilation, isolation of infectious patients, and improved cleanable surfaces and fixtures), access and safety.*
- b. Many facilities are found to have many structurally unsound buildings not worth renovating. It has been challenging to modify the few renovatable buildings to provide a facility with maximum serviceability to the community. *Unsound structures will not be considered for renovation. Existing sites with few or no suitable existing structures will be considered for demolition and new prototype construction.*
- c. The nature of a renovation is that each existing facility is unique. While Tetra Tech has used standard designs and details to the maximum extent practical, many elements of the renovation work requires unique, individual design which greatly impacts the time required for design of each renovation project. *Tt will standardize as much of the drawing detail as practical but will continue in our effort to provide comprehensive and clear construction documents for each site.*
- d. Not all sites proposed for renovation are suitable for this program either because the site is inappropriate for use as a Health Center (such as prone to severe flooding) or because all structures on the site are severely deteriorated and should be demolished. *Tt has recommended that four such sites be considered for construction of a new site adapted prototypical Health Center and will continue to look closely at each site to provide the optimum improvement for the cost.*
- e. Local architects and engineers are not accustomed to producing detailed and complete documents to the standards required by the program. *The Tt Senior Civil Engineer is focusing on mentoring the local design staff with an eye towards plan quality. Tt is reviewing technical support needs for the remaining duration of the project.*

*The difficulty of scoping and engineering design for the renovation program has resulted in the expectation that the design work will extend into the 3<sup>rd</sup> and 4<sup>th</sup> years of the EHIP program. Tetra Tech is assessing the management requirements for this extended renovation design program.*

## **7.3 Water and Electric Supply**

- a. At the outset of the EHIP program it was expected that the local Kebele would ensure that water and electricity is available at the various sites. As the assessment and design work continues, it has become apparent that many of the target projects will not be provided with these essential utilities (about 90% of the proposed SA projects and 50% of the Renovation projects are deficient in either water, electricity or both). *Tt is consulting with USAID to determine means of ensuring that both water and electricity service is available at each site.*

## **8. Data Quality issues during the reporting period**

Programmatic and M&E issues are not apparent in the EHIP program. HIV/AIDS targets are set through the selection of sites being designed and constructed, renovated or refurbished. They will be health facilities with high antiretroviral therapy (ART) patient loads and in areas of Ethiopia having

high HIV prevalence which supports attaining the goals of the health system expansion program in Ethiopia. Each Health Center is chosen to provide health facility coverage for primary health care to service delivery to health centers serving populations of 25,000. The health system expansion program also seeks to improve HIV/AIDS service and disease management services by increasing coverage at primary care service delivery facilities. These improved health facilities will support these services as well as adding other clinical services that have been missing from the facilities such as emergency care and improved clinical, laboratory and inpatient and outpatient services.

Specific performance indicators disaggregate the following three primary indicators.

- *Appropriate Site Adaptations for the construction of the new health centers*
- *Site specific full design documents for each existing health center to be renovated*
- *Compliance of construction and renovation of health centers to the design and specification*

All performance indicators agreed upon and contained in the EHIP Performance Monitoring Plan are monitored on a continuing basis.

What you are doing on a routine basis to ensure that your data is high quality for each program area

Performance indicators for the FY 2012 were developed in collaboration with the EHIP – COTR. The 2012 Annual Work Plan and the 2012 Performance Monitoring Plan are being used as the M&E program for the project.

How you plan to address those concerns / improve the quality of your data for each program area

It will continue using M&E tools and collaborative approach with the USAID Mission.

## 9. Major Activities planned in the next reporting period

### **Project Activities for 1st Quarter 2013:**

- a. Hire at least one QA Engineer and Interview others
  - Station the initial QA Engineer in Hawasa, SNNPR
  - Station the second QA Engineer in Bahir Dar, Amhara Region
- b. Continue with Modification 2 revision of CD's for 15 Site Adaption projects.
- c. Site adaption design of 8 projects resolved from the Tier 4 list.
- d. Continue with design of Renovation projects.
  - Detailed assessment and physical data gathering at each target site.
  - Produce 90% Design Development plans and specifications for Approval by USAID and the FMOH.
  - Produce Cost opinion based on 90% plans and review scope of work.
  - Continue with production of final drawings and specifications for construction procurement.
- e. Pursue nomination of additional Tier 4 Site Adapt projects.
  - Replace/nominate the final 2 sites.
- f. Update the Tt Program budget.



- e. Continue providing support to the USAID/CRMS Contractor during the bidding and mobilization stages of the initial 25 Site Adapt projects.

## 10. Environmental compliance

Moderate environmental factors such as drainage, erosion control and waste management concerns have surfaced during site investigations that Tt has taken into account in development of construction documents. Each of these issues are being addressed in accordance with the approved ERR. It is incumbent upon the Construction Contractor, however to implement the mitigation measures as designed. Review of the Construction Contractor's environmental mitigation and monitoring practices will be performed during QA spot checks performed by Tt.

Tetra Tech has developed an environmental review format tailored to EHIP, including a sample Environmental Mitigation and Monitoring Plan (EMMP), based on the USAID Africa Bureau's Environmental Review Form and in collaboration with the Mission Environmental Officer.

## 11. Financial accomplishment

Life of Project budget  (a)	Obligated to date  (b)	Expenditure (Accrual and actual disbursement) to date (9/30/2012) (c)	Remaining balance  (d) = (b) – (c)	Remarks
5 Years ██████ USD  12/6/2010 -12/5/2015	██████ USD	██████ USD	██████ USD	

## 12. Issues requiring the attention of USAID Management

- The Tt/EHIP management has been expected to transition from an Expat CoP to a CCN CoP during FY13. Tetra Tech is assessing the effect of the extended duration of renovation design work on management capability needs and budget and will present the assessment to USAID during Q1/FY13.
- Provision for water and electricity supply at new and existing Health Centers is an ongoing concern that has not yet been resolved.

## 13. Data Sharing with Host Government

Have you shared this report with the host government?

Yes ☐  
No ☒

If yes, to which governmental office/s?

None – see below

If No, why not?

It is under contract with USAID for the EHIP program and therefore will not distribute this report until we have concurrence from USAID on the content contain herein and concurrence to distribute to the appropriate agencies one of which is certainly the Ethiopian Federal Ministry of Health.

## 14. Appendices

The following drawings, reports and recommendation documents were submitted to USAID during FY12 and are on file at Tetra Tech/EHIP.

Title	Author	Date
DRAFT Quality Assurance Plan	Tetra Tech, Inc.	October 31, 2011
Proposed Health Center Infrastructure Options*	Tetra Tech, Inc.	October 14, 2011
Proposed Health Center Site Conditions & Additional Land *	Tetra Tech, Inc.	November 21, 2011
Prototypical HC Design Package *	Tetra Tech, Inc.	December 5, 2011
4 Site Adaptation Construction Packages *	Tetra Tech, Inc.	(2) December 5, 2011 (2) December 7, 2011
Environmental Review Report	Tetra Tech, Inc.	December 28, 2011
DRAFT Preliminary Site Assessment Report – Rehabilitation Projects*	Tetra Tech, Inc.	December 30, 2011
Summary of Site Adapt VE Changes	Tetra Tech, Inc.	April, 2012
Tier 1, 2 and 3 Site Adapt Project VE Design – 25 Sites*	Tetra Tech, Inc.	Various
Renovation Plans, Technical Specifications and BoQ's – 4 Sites in Amhara Region*	Tetra Tech, Inc.	Various
Findings and Recommendations for Renovation of Existing Health Centers	Tetra Tech, Inc.	5/17/12
Tier 4 Renovation Recommendations	Tetra Tech, Inc.	5/29/12
Summary of Site Adapt VE Changes	Tetra Tech, Inc.	March 15, 2012
Proposal for second set of Renovation projects: Humera, Debat, Arbaya, Gassay, and Kulmesk	Tetra Tech, Inc.	March 27, 2012
Draft Renovation Design Documents – Arbaya, Enewari, Shewaber, Kemissie and Humera Health Centers *	Tetra Tech, Inc.	August 1, 2012
Jeradado Site QA Reports	Tetra Tech, Inc.	August 9, Sept 17, 2012
Modification 2 - Site Adaption Construction Drawings, 10 Sites*	Tetra Tech, Inc.	September 5, 2012

\*These materials are too large for inclusion in this report format and are on file at the EHIP office.